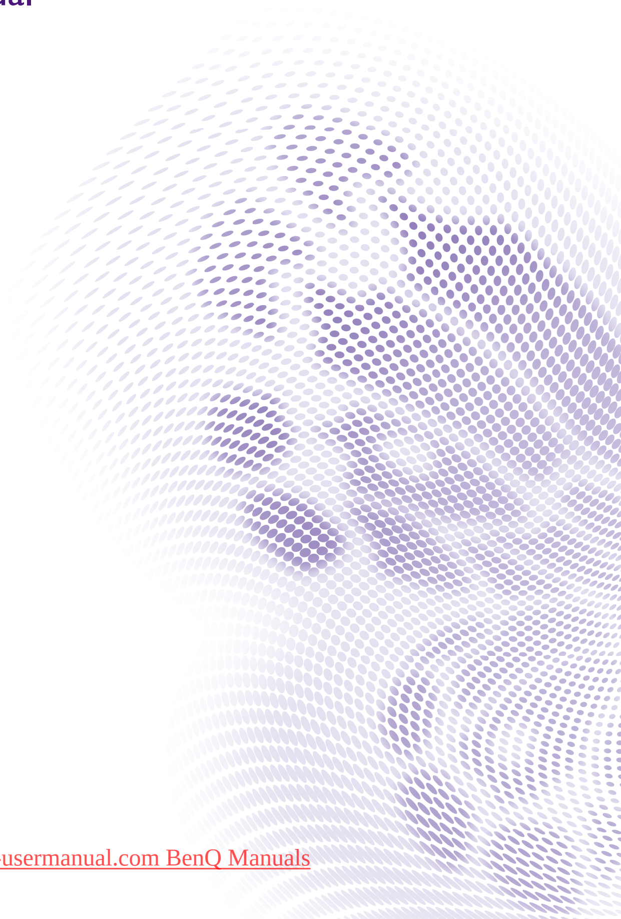
GH650 / GH658
Digital Camera
User Manual



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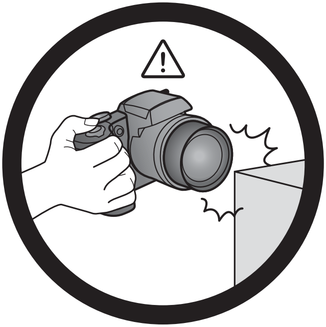
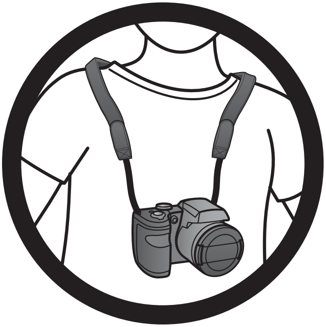
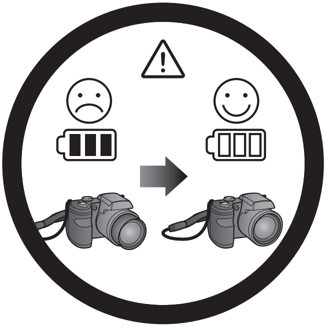


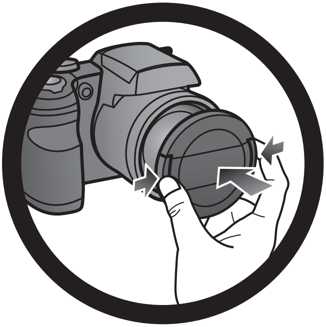
Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.



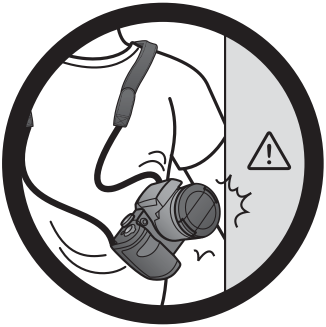
To avoid accidental falling, please attach the neck strap to the camera and always put the camera around your neck.



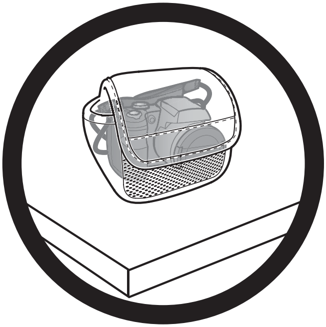
If the batteries suddenly depleted and caused the lens fail to retract, please carefully protect the lens to avoid collision and insert batteries with full power ASAP..



When the camera is not in use, always turn the power off. Plus, before storing the camera in its case, make sure the lens has retracted successfully and you put the lens cover back. If you do not intend to use the camera for a long time, please remove the batteries from the camera and store the batteries carefully.



Keep your camera away from sharp objects and avoid collision.



When the camera is not in use, please place it in the pouch and a steady place. Plus, always keep your camera away from pressure to avoid possible damage.

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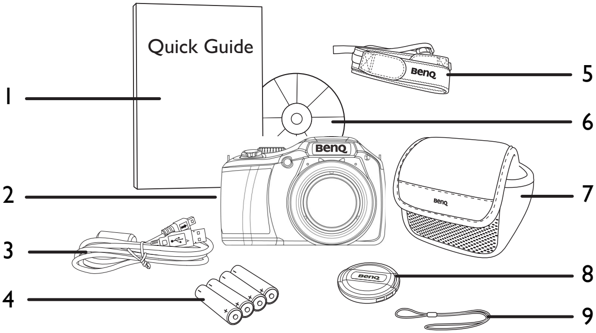
Touring the camera

Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.

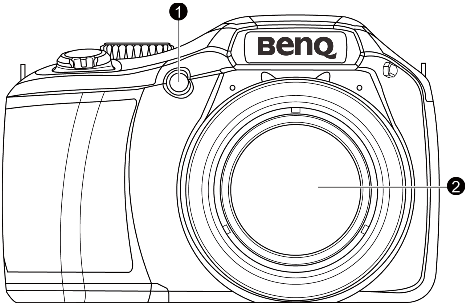


1. Quick Guide
2. Digital camera
3. USB cable
4. AA battery x 4
5. Neck strap
6. Software & User Manual CD
7. Pouch (optional)
8. Lens cover
9. Lens strap

- All pictures, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- Save the packaging for future shipment or storage.

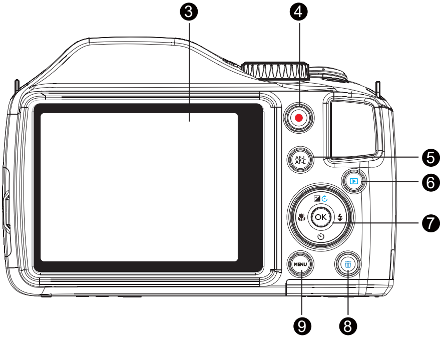
Camera

Front view



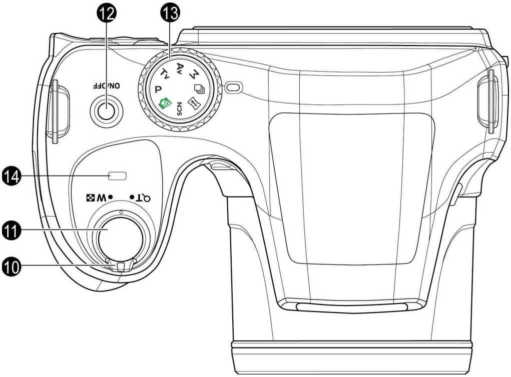
1. AF Assist Lamp / Self-timer LED indicator
2. Lens

Back view


3
4
5
6
7
AE-L
AF-L
OK
MENU
9
8

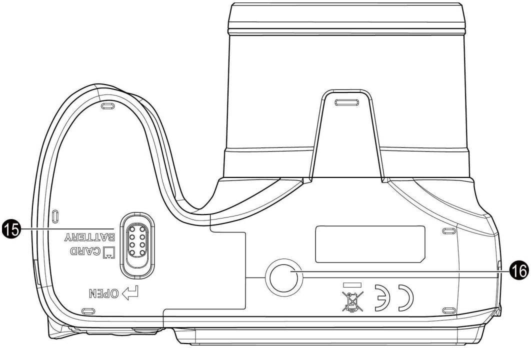
3. LCD display
4. Movie Record button
5. AE/AF Lock button
6. Playback button
7. OK button / 4-way navigation control
8. Delete button
9. Menu button

Top view


12
13
14
11
10
ON/OFF
Av
Tv
M
P
SCN
W
T

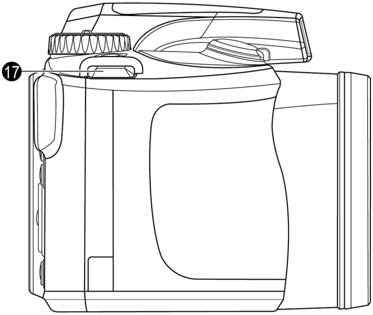
10. Zoom dial
11. Shutter button
12. Power button
13. Mode dial
14. LED indicator light

Bottom view


15
16
BATTERY
CARD
OPEN

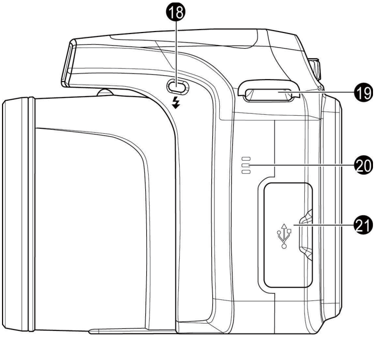
15. Battery/card cover
16. Tripod mount

Right view



17.Strap eyelet

Left view



18.Flash button
19.Strap eyelet
20.Speaker
21.USB/TV Out

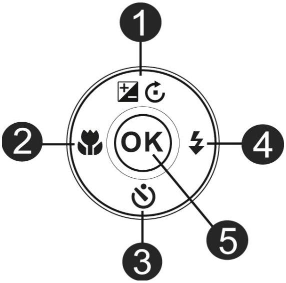
LED Indicator light

Indicator	State	Description
Status LED	No light	The digital camera is on or off.
	Solid green	The digital camera is powering up.
Status LED	Blinking green	• The digital camera is in the power-saving mode. • The flash is charging. • The USB communication/transfer is in progress.
Self-timer LED	Blinking red	The self-timer function is activated.

- It is normal for the camera to become warm during operation, because the camera casing might conduct heat.
- The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.
- The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the shutter, always hold the camera steady. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.

4-way control and OK button

You can choose camera settings by pressing the 4-way control or **OK**.



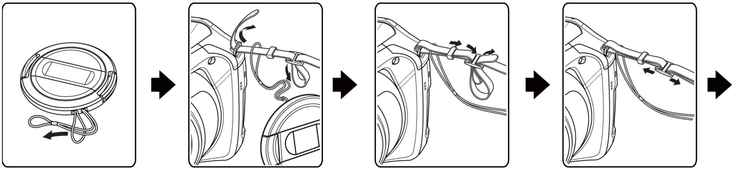
1. **EV/Rotate/Up**:
   - Changes EV settings.
   - Pauses/Starts video playback.
   - Rotates an image clockwise by 90 degrees.
   - Navigates through the menu and submenu selections.
2. **Left/Focus**:
   - Scrolls through focus options.
   - Views the previous image or video clip.
   - Rewinds video playback.
   - Exits a submenu or navigates through menu selections.
3. **Self-timer/Down**:
   - Scrolls through self-timer options.
   - Plays/Stops video playback.
   - Navigates through menu and submenu selections.
4. **Right/Flash**:
   - Scrolls through flash mode options.
   - Views the next image or video file.
   - Forwards video playback.
   - Enters a submenu or navigates through menu selections.
5. **OK**:
   - Confirms a chosen setting.
   - Starts video playback.

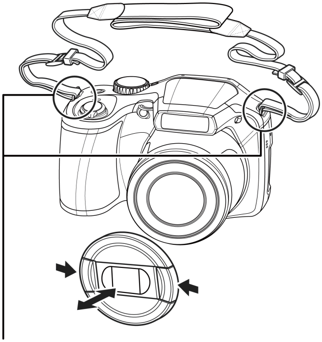
Preparing the camera for use

This section will guide you on how to prepare the camera before its initial use.

Attaching the strap

1. Make sure the lens cover and the strap are well combined.
2. Attach the lens cover to the strap as the illustration.
3. Follow the steps below to attach the strap to the camera.





Make sure the camera strap is attached at two places.

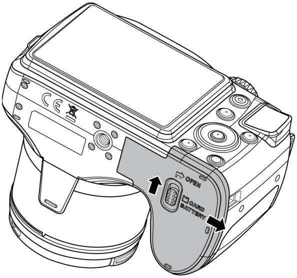
- Wrapping the strap around your neck is dangerous. Refrain children from playing with the strap.
- Remove the lens cover before using the camera.

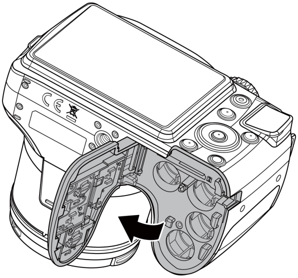
Installing the batteries

Use only the specified batteries for the camera, and always turn off the camera before removing the batteries.

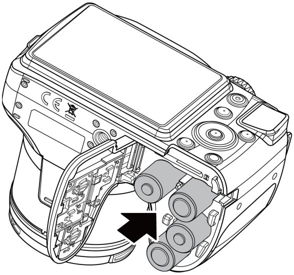
To install the batteries:

1. Unlock and open the battery/card cover.

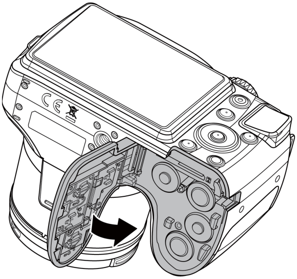


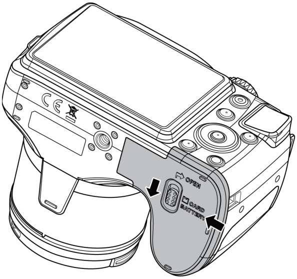


2. Insert the batteries in the correct direction by matching the **+ -** label on the battery slot.



3. Close and lock the battery/card cover.





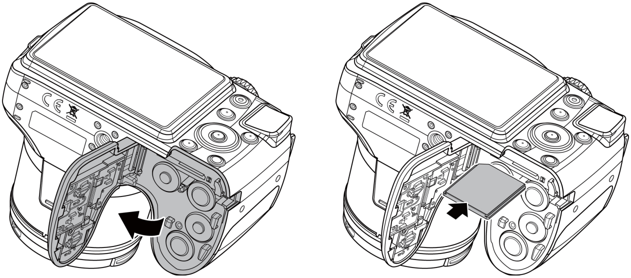
- Turn off the camera before installing or removing the batteries.
- Use only the specified battery type. Using other types of batteries may damage the camera and invalidate the warranty.
- Ensure that the batteries are inserted into the product with correct polarity. Incorrect polarity may damage the camera or cause fire.
- Download all pictures and remove the batteries from the camera if you are going to store the camera for a long time.
- The batteries may be warm after being used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its batteries warm by holding it inside your jacket or another warm protective environment.
- Please select the correct battery type before use.
- High-capacity (such as 2500 mAh) rechargeable batteries are recommended.
- Carbon-zinc batteries are not recommended.
- The AA batteries that came with the camera are not rechargeable.
- Do not combine old and new batteries or batteries of different makes or types.
- Performance of alkaline batteries may vary greatly depending on the manufacturer. Choose a reliable brand.

Installing an SD card

The camera comes with internal memory for storing captured images, video clips, or audio files. You can also add an SD card to store more files.

To install an SD card:

1. Unlock and open the battery/card cover.
2. Insert an SD card in the correct direction.
3. Close and lock the battery/card cover.



To remove an SD card:

1. Unlock and open the battery/card cover.
2. Lightly press the edge of the memory card to eject.

3. Close and lock the battery/card cover.

Before initial use of an SD card, please format the card first by pressing **MENU** > 🔧 > **Format** > **OK** / ⚡ > **Yes** > **OK**.

Turning the Power On and Off

Before turning on the camera, be sure to remove the lens cover. Otherwise, the lens will not be extended and the camera will beep four times.

There are two ways to turn on the camera:

- Press the **Power (ON/OFF)** button.

  The zoom lens extends and the camera is turned on in **Record** mode.

- Press and hold ▶.

  The camera is turned on in **Playback** mode, and the lens is not extended.

Opening the Flash

You need to manually open the flash before switching the flash mode.

To open the flash:

Press the **Flash** button to open it.

Do not use your hands to forcibly lift open the flash.

To close the flash:

Push down the flash to close it.

When the flash is closed, flash mode is automatically set to flash off.

Initial setting

You will be prompted to set up the language and the date and time when the camera is turned on for the first time.

Setting language

Selects the language version shown on the screen.

To select a language:

1. Press **MENU** > 🔧. (Step 1 is needed only after the initial setting is complete.)
2. Press ⏲ or ± ↻ to locate **Language**, and then press **OK** or ⚡.
3. Press 🌷, ⚡, ⏲, or ± ↻ to locate the language you want.
4. Press **OK** to set the language.

Setting date and time

When using the camera for the first time or when the battery has been removed from the camera for a long time, you need to set the date and time. The date and time is recorded when a video or image is captured.

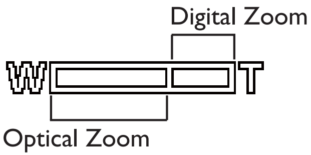
To set date and time:

1. Press **MENU** > 🔧. (Step 1 is needed only after the initial setting is complete.)
2. Press ⏲ or ± ↻ to locate **Date & Time**, and then press **OK** or ⚡.
3. Press ⏲ or ± ↻ to select date, time and date format. Press 🌷 or ⚡ to move to another column as needed.
4. Press **OK** to set the date and time.

Operating the camera

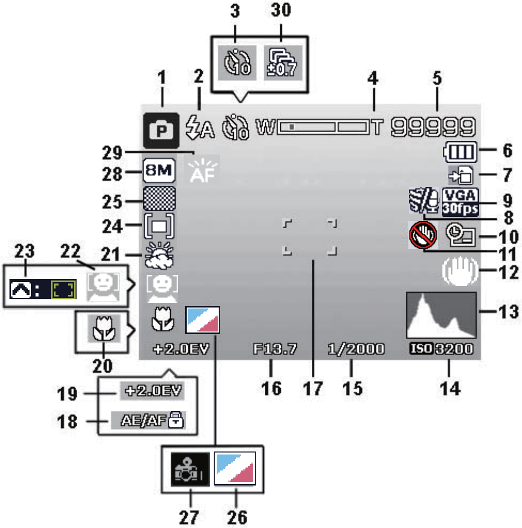
The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

1. Press the **Power** button to turn the power on.
   Be sure that you have removed the lens cover before turning on the camera.
2. Set the mode dial to **P** or other desired shooting mode.
3. If you need to use the flash for shooting, open the flash.
4. Use the **Zoom** lever to zoom-in/zoom-out on the subject.
5. Press the shutter halfway to set automatic focus.
   - Once the focus is set, the focus frame color will turn to yellow (focused). If the focus frame color is red and you press the shutter down, it might result in a blurred photo.
6. Press the shutter down fully to capture the image.
7. To switch to **Movie** mode, press ●. The video recording automatically starts.
   - While recording, use the **Zoom** lever to zoom-in/zoom-out on the subject. Press ● again to stop video recording.
8. To switch to **Playback** mode, press ▶. In **Playback** mode, you can view captured images or recorded videos.
   - You can press ❀ or ϟ to view other images/videos, slide the **Zoom** lever to W▦ to zoom-in on a captured image, or slide the **Zoom** lever to 🔍T to view 9-thumbnail images on the screen.



- During zoom-in/out, there is a separator in the zoom bar between T and W. For best image quality, it is recommended to use optical zoom only by keeping the magnification within W and the separator.
- Flash is automatically turned off in the Movie mode.
- In Movie mode, the camera records both sound and video. The recording time is continuous, but recording will stop once the memory card space is full.
- At any time, you can press the Power button to turn off the camera.

Capture mode


3
30
±0.7
1
2
4
5
P
W
T
99999
6
7
9
VGA
30fps
8
10
11
12
13
29
28
8M
AF
25
24
23
22
21
20
+2.0EV
F13.7
1/2000
ISO 3200
16
17
15
14
19
+2.0EV
18
AE/AF
27
26

No.	Item	Description
1	Record Mode	Indicates the current mode.
2	Flash	Indicates flash settings.
3	Self-timer/Burst	Indicates Self-timer settings.
4	Zoom indicator	Displays zoom.
5	Shots remaining	Indicates the remaining shots available.
6	Battery	Indicates battery level.
7	Storage media	Indicates current storage media in use.
8	Wind Cut	Reduces wind noise during movie recording.
9	Movie size	Indicates movie size.

No.	Item	Description
10	Date stamp	Indicates date stamp is enabled.
11	Shake warning	Indicates the light is not enough and the camera is shaking, which may cause the captured image blurred. If the shake warning appears, you can still capture images. However, enable Stabilizer, flashlight or use tripod is recommended, these ways will stabilize the camera.
12	Stabilizer	Indicates stabilizer function is enabled.
13	Histogram	Graphic display of Brightness.
14	ISO	Displays ISO settings.
15	Shutter speed	Displays shutter speed settings.
16	Aperture value	Displays aperture settings.
17	Focus area	Indicates focus area.
18	AE/AF Lock	Indicates AE/AF Lock is enabled.
19	EV Compensation	Displays exposure compensation settings.
20	Focus mode	Indicates focus is enabled.
21	White balance	Displays white balance settings.
22	Face tracking	Indicates face tracking is enabled.
23	Tracking AF	Indicates tracking AF is enabled.
24	Metering	Displays metering settings.
25	Quality	Displays quality settings.
26	Refine Image	Indicates Refine Image function is enabled.
27	Lomo	Indicates Lomo function is enabled.
28	Photo size	Displays photo size settings.
29	AF lamp	Indicates AF lamp is enabled.

No.	Item	Description
30	Exposure bracketing	Displays Exposure bracketing settings.

Flash mode

The flash offers additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
⚡A	Auto Flash	The flash fires automatically based on the photographic conditions.
◉	Red-eye Reduction	Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
⚡	Forced On	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.
⚡S	Slow Sync	Fires the flash immediately at the beginning of exposure with a longer shutter speed, so balanced ambient lighting of the foreground subject and background scene can be reached in a low-light environment.
⊘	Forced Off	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

To select a flash mode:

1. Set the mode dial to the desired shooting mode.
2. Open the flash.

3. Press ⚡ repeatedly until your desired flash mode is displayed on the LCD monitor.

- The flash mode is not available in Continuous Shooting and HDR modes.
- The flash mode cannot be activated if the flash does not open.
- When the flash is closed, flash mode is automatically set to flash off.

Using the Self-timer

This feature allows you to set the self-timer settings.

Icon	Mode	Description
⏱10 / ⏱2	10-sec./2-sec. self-timer	Automatically takes a picture after 2 or 10-second delay. This mode is useful when you want to be part of the picture.
⏱⏱	Double	Performs delay and capture twice: Performs a 10-second delay, then captures the image. Performs another 2-second delay then captures the image again.
OFF	Off (Single)	Takes one picture at a time.

To enable self-timer mode:

1. Set the mode dial to the desired shooting mode.
2. Press ⏱ repeatedly until your desired self-timer mode is displayed on the LCD monitor.

Focus mode

This feature allows you to define the focus type when capturing an image or a recording a video clip.

To select the focus mode:

1. Set the mode dial to the desired shooting mode.

2. Press 🌷 repeatedly until your desired focus mode is displayed on the LCD monitor.

Icon	Mode	Description
[AF]	Auto Focus	With auto focus, the camera will focus on the subject automatically.
🌷 / 🌷S	Macro / Super Macro	This mode is designed for close-up photography. When Super Macro is set, the focus cannot be adjusted until Super Macro is canceled.
[▲]	Infinity	When Infinity is set, the camera focuses on distant objects.
[MF]	Manual Focus	With manual focus, you can adjust the focus distance from 30cm to 100cm by press Up/ Down button. Press OK button to lock the focus and exit the adjusting screen.

Using the AE/AF Lock (AE-L/AF-L) button

Use AE-L AF-L on your camera to lock focus and exposure.

To lock AE/AF:

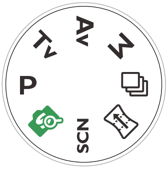
- Press AE-L AF-L.
- Half press the shutter and then press AE-L AF-L.

To unlock AE/AF:

- Press AE-L AF-L.
- Rotate the zoom lever.
- Rotate the model dial.
- Press the MENU/Playback/Movie/Power button to launch another function.

Selecting the Shooting Mode

Rotate the mode dial to select one of the eight shooting modes:



No.	Icon	Mode	Description
1	**P**	Program	The camera automatically configures the appropriate settings, so you can capture images with ease.
2		Smart Scene	The camera detects the shooting condition and automatically switches to the appropriate scene mode.
3	**SCN**	Scene Mode	Lets you select the desired scene mode that suits your shooting environment.
4		Panorama	Lets you shoot multiple pictures, and then the camera automatically combines pictures into a panoramic image.
5		Continuous Shooting	Lets you capture a series of shots with a single press of the shutter.
6	**M**	Manual Exposure	Lets you set both aperture and shutter speed manually.
7	**Av**	Aperture Priority (Av)	You can choose an aperture value, while the shutter speed is automatically determined by the lighting condition of the subject.
8	**Tv**	Shutter Priority (Tv)	You can choose a shutter speed, while the aperture value is automatically determined by the lighting condition of the subject.

Using Smart Scene mode

Automatically selects the best scene mode from Portrait, Landscape, Macro, Backlight, Backlight Portrait, Night Scene, and Night Portrait.

1. Set the mode dial to .
2. Press the shutter halfway to set automatic focus. The selected shooting mode is displayed in the top left corner of the screen.
3. Press the shutter to capture an image.
4. The camera only saves the sharpest photo, and the others are erased automatically.

Setting the Scene mode

Select one of the following scene modes to fit your shooting condition.

To select a scene mode:

1. Set the mode dial to **SCN**.
2. Press **MENU** > to enter the scene menu.
3. Press or to select the desired scene mode.
4. Press **OK** to confirm the setting.

Icon	Mode	Description
	Portrait	Makes the subject (usually a person) stand out with smooth and natural-looking skin tones.
	Landscape	Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can also be achieved.
	Sunset	Captures the warmth and atmosphere (represented by hue) of sunrise or sunset.
	Backlight	Increases exposure (by turning on the flash) when light illuminates the subject from behind.
	Kids	Increases sensitivity and emphasizes children's skin tones.

Icon	Mode	Description
	Night Scene	Captures photos in a low-light environment, such as in the evening or at night.
	Lomo	Creates a lomo-like effect by adding over saturated colors, dark corners, and so on.
	Fireworks	Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode.
	Snow	Used under a very bright light environment such as snow scenes.
	Sports	Uses a high shutter speed to capture objects in motion.
	Party	Captures the party atmosphere usually under indoor light source.
	MagiQ	Provides a dramatic and magical filter.
	Night Portrait	Shoots night scenes and portraits clearly. Keep the camera steady or use a tripod while using this mode.
	Flowing Water	Uses a low shutter speed for motion blur. Please keep the camera steady or use a tripod while using this mode.
	Mirror	Creates a mirror image effect.
	Love Portrait	Takes a self portrait with at least two faces in a confined area.
	Self Portrait	Takes a self portrait with at least one face in a confined area.
	Fisheye	Simulates a fisheye lens effect and creates a distorted hemisphere-like image.
	Toy	Simulates a shallow depth of field by gradually blurring the top and bottom areas of a composition.

Icon	Mode	Description
HDR	HDR	Automatically increases the dynamic range on necessary portion of the image and enhances the details of dark areas.

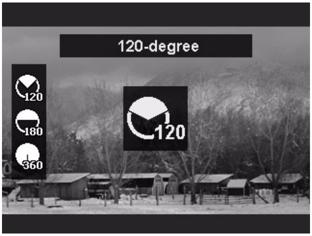
Using Panorama mode

Use this feature to create a panoramic photo from multiple shots. You can combine several shots into one single image quickly and easily.

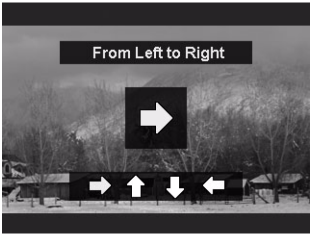
The actual size of stitched image may be different due to the panoramic angle and stitching result as well as the level of camera shaking.

To create a panoramic image:

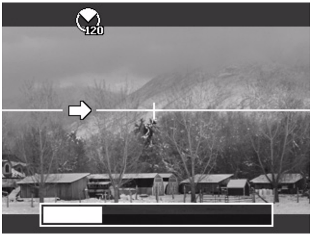
1. Set the mode dial to ⇔.
2. Press ⏱ to launch the Angle Menu. Use ⏱ or ± ↻ to select options. Press **OK** to save and apply changes.



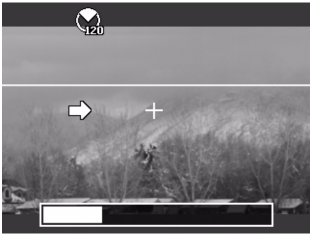
3. Press ⚡ to launch the Direction Menu. Use ✿ or ⚡ to select options. Press **OK** to save and apply changes.



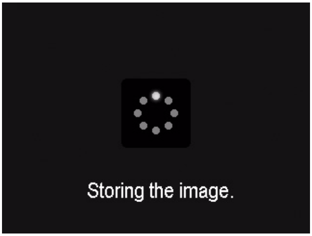
4. Full press the shutter to start shooting. When shooting starts, a white-cross locates on the center and a yellow line displays horizontally (or vertically) through the screen. In addition, a shooting bar displays to present the shooting position and the white portion of the bar indicates where has been taken.



5. If you move camera without keeping straight, the yellow line will move with the moving scene.



6. When the white portion of the bar goes to the end. The camera would finish automatically and save the panorama image.



Storing the image.

Using Continuous Shooting mode

In this mode, you can take consecutive shots.

Icon	Mode	Description
⧉	Burst	Fully press and hold the shutter to take a continuous shooting until you release the shutter or the memory card is full.
⧉HI	Speedy Burst	Fully press the shutter and release it. Then the camera will automatically take 30 photos continuously.

To select a continuous shooting mode:

1. Set the mode dial to ⧉.
2. Press **MENU** > ⏲ or ± ↻ to locate **Continuous Shooting**, and then press **OK** or ϟ.
3. Press ⏲ or ± ↻ to select a desired option.
4. Press **OK** > **MENU** to confirm the setting and exit the menu mode.

Love Portrait

Takes a self portrait of at least two faces.

1. Set the mode dial to **SCN**.
2. Press **MENU** > ± ↻ to enter the scene menu.
3. Press ✿ or ϟ to select **Love Portrait**.
4. Press **OK** to confirm the setting.
5. Once faces are detected, the camera will automatically take a picture after a two-second countdown.

During the countdown, you can press the shutter to cancel the countdown. The camera will then start detecting faces again.

6. The camera continues to detect faces and takes more pictures by repeating Step 5. Face tracking will automatically stop if no faces are detected.

Using Manual Exposure mode

You can choose the aperture value and shutter speed in Manual Exposure mode.

To adjust values in Manual Exposure mode:

1. Set the mode dial to **M**.
2. Press **OK**.
3. Adjust the settings.
   - Press ⏱ or ± ↻ to adjust the aperture value.
   - Press 🌷 or ⚡ to adjust the shutter speed.
4. Press **OK** to confirm setting.

Using Aperture Priority mode

Aperture priority is often used when shooting static subjects or emphasizing the depth of field. In general, use a smaller aperture if a greater depth of field is needed.

To adjust values in Aperture Priority mode:

1. Set the mode dial to **Av**.
2. Press **OK**.
3. Press ⏱ or ± ↻ to adjust the aperture value.
4. Press **OK** to confirm setting.

Using Shutter Priority mode

Shutter priority is often used when shooting moving subjects. In general, use a shorter shutter speed to catch a fast-moving object.

To adjust values in Shutter Priority mode:

1. Set the mode dial to **Tv**.
2. Press **OK**.
3. Press 🌷 or ⚡ to adjust the shutter speed.
4. Press **OK** to confirm setting.

Recording Videos

You can record video with this camera. Set the movie settings before you start recording a video.

To record the video clip:

1. Press ● to start recording.
2. Use the **Zoom** lever to zoom in/out on the subject.
3. Press ● to stop the recording.

- The camera will automatically stop recording when the memory capacity is full.
- Video recording at HD 720p 30fps will automatically stop when the video file size reaches 4GB or the total recording time is near 29 minutes.
- Recording a video at HD mode requires a Class 4 or above SDHC card.
- The recording sound is temporarily muted during zoom-in/out.
- Digital zoom is not available while recording a video.

Using PIV function

During video recording, you can capture an image by pressing the shutter (the 📷 icon appearing on the screen shows that you have taken one picture). This feature is only applicable to videos with size of 720p (30fps) or VGA (30fps).

- When the movie size is 720p (30fps), the capture photos are saved at 1280 x 720 resolution.
- When the movie size is VGA (30fps), the capture photos are saved at 640 x 480 resolution.

Using the Capture Menu

Press **MENU** to access more capture options. Depending on your settings, the displayed option icons in the Capture menu may vary.

1. Press **MENU** > 📷.
2. Press ⏲ or ± ↻ to select a menu item.
3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏲ or ± ↻ to select the settings.
5. Press **OK** > **MENU** to save the setting and exit the menu mode.

Photo size

Icon	Description	Icon	Description
16M	16 megapixels (4608 x 3456)	3:2	3:2 (3984 x 2656)
8M	8 megapixels (3264 x 2448)	16:9 9M	HD 16:9 (9 megapixels; 3968 x 2232)
5M	5 megapixels (2592 x 1944)	16:9 2M	HD 16:9 (2 megapixels; 1920 x 1080 in full HD format)
3M	3 megapixels (2048 x 1536)	1:1	2992 x 2992
VGA	VGA (640 x 480)	--	--

To select an image size:

1. Press **MENU** > 📷 > **Photo Size**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ± ↻ to select a setting.
4. Press **OK** to confirm setting.

Quality

Sets the quality (compression) at which the image is captured. The quality determines the amount of compression applied to your images. **Super Fine** quality would give you the best images with sharper details and less compression. However, the higher the quality, the more memory space is required in your memory card.

To set the image quality:

1. Press **MENU** > 📷 > **Quality**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ◪ ↻ to select **Super Fine** ▩, **Fine** ▩, or **Normal** ▩.
4. Press **OK** to confirm setting.

Refine Image

Applies different settings or tones to optimize the image you are taking.

To set the date stamp:

1. Press **MENU** > 📷 > **Refine Image**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ◪ ↻ to select **Normal / Soft / Vivid / More Vivid / Portrait / Custom / B&W (Black & White)**.
4. Press **OK** to confirm setting.

Setting EV

EV (Exposure Value) lightens or darkens the entire image. Adjust EV when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.

To select an EV:

1. Press ◪ ↻.
2. Press ⏲ or ◪ ↻ to adjust the setting.
3. Press **OK** to confirm setting.

White Balance

Compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.

Icon	Mode	Description
A	Auto	Adjusts white balance automatically.
☼	Daylight	Used in bright daylight conditions.
☁	Cloudy	Used in twilight or shady conditions.
💡	Tungsten	Used when subjects lit by tungsten (incandescent) lighting.
H	Fluorescent_1	Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash.
L	Fluorescent_2	
M	Manual	Used when you want to manually adjust white balance in a particular lighting condition.

To select White Balance:

1. Press **MENU** > 📷 > **White Balance**.
2. Press **OK** or ϟ to enter the submenu.
3. Press ⏲ or ± ↻ to select a white balance option. The preview result based on the currently selected white balance is shown on the screen. (To select the Manual mode, press ϟ and point the camera at a blank sheet of white paper or something similar, then press the shutter for the camera to detect proper colors.)
4. Press **OK** to confirm setting.

ISO

ISO configures the camera sensitivity to light. The higher the ISO value, the brighter picture you can take in a low-light environment. Yet, you may see more noise in the picture as you increase the ISO value.

Icon	Description
ISO A	Automatically sets the ISO value.
ISO 100 ISO 200	Equivalent to color ISO 100/200 film. Used for outdoor photography in bright sunlight.
ISO 400 ISO 800 ISO 1600 ISO 3200 ISO 6400	Equivalent to color ISO 400/800/1600/3200/6400 film. Use it in a low-light environment or where the flash light is not allowed. ✎ ISO 6400/3200 for resolution of 3M / 16:9 (2M) / VGA under only.

To select an ISO value:

1. Press **MENU** > 📷 > **ISO**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ± ↻ to select an ISO Value.
4. Press **OK** to confirm setting.

Metering

Icon	Mode	Description
[ ]	Multi	Detects the exposure based on multiple points in the subject area.
[▭]	Center	Detects the exposure of the entire shooting screen, but gives more importance to the values near the center.
[▫]	Spot	Detects the exposure based on the center spot in the subject area.

To select a metering option:

1. Press **MENU** > 📷 > **Metering**.

2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ± ↻ to select a metering option.
4. Press **OK** to confirm setting.

AF Area

This feature determines the area on which the camera focuses.

Icon	Mode	Description
☺	Face Tracking	Automatically detects faces and tracks faces continuously.
[····]	Wide	Automatically selects the focus area within the wide frame.
[+]	Center	The focus is fixed on the center.
⌖	Tracking AF	Focuses the subject as it moves and the focus is kept continually automatically.

To set the AF Area:

1. Press **MENU** > 📷 > **AF Area**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ± ↻ to an AF area option.
4. Press **OK** to confirm setting.

AF Lamp

This feature allows you to add extra light when the lighting is insufficient while capturing images.

To enable the AF Lamp:

1. Press **MENU** > 📷 > **AF Lamp**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏲ or ± ↻ to select **Auto**.
4. Press **OK** to confirm setting.

Digital Zoom

The digital zoom enlarges or shrinks the image using a software process.

To enable the digital zoom:

1. Press **MENU** > 📷 > **Digital Zoom**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ◪ ↻ to select **On**.
4. Press **OK** to confirm setting.

Date Stamp

Imprints the date when a picture was taken on the picture itself.

To set the date stamp:

1. Press **MENU** > 📷 > **Date Stamp**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ◪ ↻ to select **Date**, **Date & Time**, or **Off**.
4. Press **OK** to confirm setting.

Auto Review

This feature displays a preview of the still image for 1 second right after capturing it.

To set the Auto Review:

1. Press **MENU** > 📷 > **Auto Review**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ◪ ↻ to select **On** or **Off**.
4. Press **OK** to confirm setting.

During auto review, half press the shutter to return to the capture mode.

Grid Line

Shows a a rule-of-thirds grid on the LCD monitor to help your still image composition.

To set the Grid Line:

1. Press **MENU** > 📷 > **Grid Line**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ± ↻ to select **On** or **Off**.
4. Press **OK** to confirm setting.

Stabilizer

Reduces blur caused by camera vibration, and thus improves image quality and clearness.

To set the Stabilizer:

1. Press **MENU** > 📷 > **Stabilizer**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ± ↻ to select **On** or **Off**.
4. Press **OK** to confirm setting.

When the battery power is low, the Stabilizer will be turned off automatically.

Using the Movie Menu

Press **MENU** to access Movie menu options. Set the necessary settings before you start recording the video clip.

To select a movie size:

1. Press **MENU** > 🎥 > **Movie Mode**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ± ↻ to select a setting: HD 720p (30 fps) / VGAp (30 fps).
4. Press **OK** to confirm setting.

Wind Cut

Use this feature to reduce wind noise during video recording.

To enable Wind Cut:

1. Press **MENU** > 🎥 > **Wind Cut**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ◩ ↻ to select **On**.
4. Press **OK** to confirm setting.

AF Mode

Use this feature to control the auto focus method in recording videos.

To set the Continuous AF mode:

1. Press **MENU** > 🎥 > **Continuous AF Mode**.
2. Press **OK** or ⚡ to enter the submenu.
3. Press ⏱ or ◩ ↻ to select **On** or **Off**.
4. Press **OK** to confirm setting.

Battery status

Icon	Description
🔋	Battery power is full.
🔋	Battery power remains adequate.
🔋	Battery power is low.
🪫	Battery power is very low. You should replace the battery ASAP.

Other settings

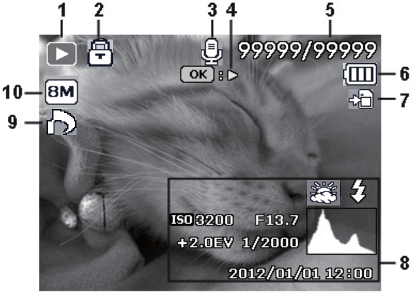
Press **MENU** > ⚙, and then select an option.

Option	Submenu	Description
Sounds	[Startup]	Sets a type of the startup sound.
	[Shutter]	Sets the shutter sound on and off.
	[Beep Volume]	Adjusts the volume.
Power Save	[1 min.]	For power conservation, the camera automatically enters the standby mode after it has been idle for a period of time. (Press any key to resume.)
	[3 min.]	
	[5 min.]	
	[Off]	The camera remains on when idle.
Date & Time	Sets the date and time.	
Language	Selects a language for display menus and other information.	
Display Mode	[On] [Detailed Info] [Off]	Controls how icons are displayed on the LCD monitor for both Capture mode and Playback modes.
TV Out	[NTSC] [PAL]	Switches the video output according to different regional standards. Available settings: NTSC (for America, Japan, Taiwan, and others) and PAL (for China, Europe, Oceania, and others).
	✎ TV Out should be set to either NTSC or PAL depending on your region. For details about which system should be used, check with your local authorities.	
LCD Brightness	[Auto]	The LCD brightness is automatically set based on the surrounding environment.
	[Bright]	The LCD brightness is increased.
	[Normal]	The LCD brightness remains at the default value.

Option	Submenu	Description
Startup Image	[On]	Activates the system startup image when you turn on the camera.
	[Off]	Disables the startup image function.
Battery Type	[Alkaline]	Selects if the type of battery used in the camera is Alkaline.
	[Ni-MH]	Selects if the type of battery used in the camera is Ni-MH.
	[Lithium]	Selects if the type of battery used in the camera is Lithium.
Format	Formats the internal memory or the memory card.	
Reset All	Resets the entire menu and button operation settings to initial default. The following settings do not change after Reset All: • Date & Time setting • Language setting • TV Out setting • Manual White Balance setting	

Playback mode

Press ▶ to switch to **Playback** mode.



If the camera is turned off, you can directly switch to Playback mode by pressing and holding ▶.

No.	Item	Description
1	Playback mode	Indicates that the camera is in **Playback** mode.
2	Protect	Indicates that the file is protected and cannot be deleted.
3	Voice memo	Indicates this file has a voice memo or the file is an audio file.
4	Button introduction	Indicates key guide. Press the button to play the recorded video.
5	File no./Total no.	File number / Total number of files on the memory card
6	Battery	Battery level
7	Storage media	Storage media type
8	Recording information	Displays the recording information of the file.
9	DPOF	Indicates the file is marked for printing.
10	Image Size	Indicates the image size setting

Options for playback and editing

When the camera is in **Playback** mode, press ✿ or ⚡ to view the next/ previous recorded files. You can also select any of the following options.

Enlarging an image

Magnifies an image, so more details can be seen.

To enlarge an image:

1. Press ▶ to switch to **Playback** mode.
2. Press ✿ or ⚡ to select the image you want to enlarge.
3. Slide the **Zoom** lever to 🔍T to zoom-in or W▦ to zoom-out on a captured image.
   In Zoom mode, use the **Zoom** lever to adjust the zoom ratio.
4. Press ⏱, ±↻, ✿, or ⚡ to move to the area you want to view.

Trimming

Crops part of an image file and saves it as another new file.

To trim an image:

1. Press ▶ to switch to **Playback** mode.
2. Press ✿ or ⚡ to select the image you want to enlarge.
3. Slide the **Zoom** lever to 🔍T to zoom-in on a captured image.
   In Zoom mode, use the **Zoom** lever to adjust the zoom ratio.
4. Press ⏱, ±↻, ✿, or ⚡ to locate the area you want to trim.
5. Press **MENU** > ⏱ or ±↻ to select **Yes** and press **OK** to confirm and save the image file.

Rotating an image

You can press ±↻ to change the orientation of an image at 90 degrees clockwise at a time.

This function does not actually change the image, it just add a flag on orientation tag of the EXIF data and save it after each rotation.

Viewing multiple files at a time

Shows up to 9 files at a time on the screen.

To view multiple files:

1. Press ▶ to switch to **Playback** mode.
2. Slide the **Zoom** lever to 🔍T. In this mode, maximum 9 files (shown in thumbnails) are displayed on the screen. Press ⏲, ±↻, 🌷, or ⚡ to select a file, and then press **OK** to view it in its normal viewing size.

If there are more than 9 thumbnails, a scroll bar appears on the screen.

Playing back video clips

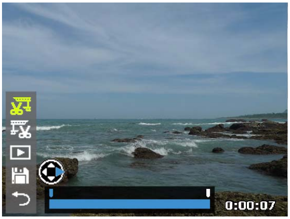
View recorded video clips in the playback mode.

To view a video clip:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ⚡ to select the video clip you want to view.
3. Press **OK** to start playing the video clip.
   - Press ⏲ to stop the video clip, or press ±↻ to pause it. Press ±↻ again to resume.

- During video playback, press ⚡ to fast forward or press 🌷 to rewind.
- While pausing video playback, you can view the video frame by frame. Press ⚡ to fast forward one frame, or press 🌷 to rewind one frame. Press and hold ⚡ to fast forward frame by frame continuously, or press and hold 🌷 to rewind frame by frame continuously.

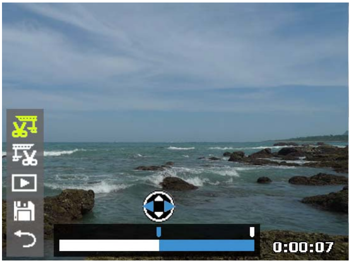
Using Movie Edit



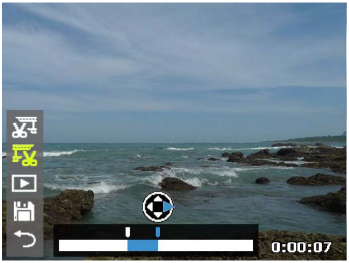
When a video clip is paused, press to enter Movie Edit mode. An edit panel appears on the left side of the screen.

To edit the movie, do the following:

1. Press or to select:
   - to set the start point to trim the beginning of the movie.
   - to set the end point to trim the end of the movie.
2. Press or to set the movie time interval. The movie length must be at least more than 2 seconds.



Start Point



End Point

3. To preview the video, press or to select and press **OK**.
4. To save the edited video as another video file, press or to select and press **OK**. Select **Save** and press **OK** to save the file.
5. To exit Movie Edit mode, press or to select and press **OK**. It returns to the video paused display screen.

The edited video clip will be saved as a separate file and it cannot be edited again.

Adjusting the playback volume

Increases or decreases the volume of a video clip, audio clip, or voice memo during playback.

To adjust the playback volume:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ⚡ to select a video clip, audio clip, or voice memo that you want to play.
3. Start the file playback and adjust the volume.
   - To increase the volume, slide the **Zoom** lever to 🔍T.
   - To decrease the volume, slide the **Zoom** lever to W▦.

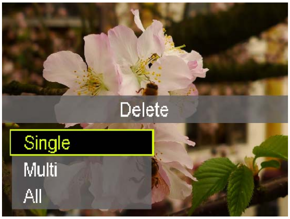
The volume can only be set during playback, but not during rewind, fast forward, or pause.

Deleting files

Deletes selected or all files.

To delete a single file:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ⚡ to select the file that you want to delete.
3. Press 🗑.
4. Press ⏱ or ☒ ↻ to select **Single** and press **OK**.
5. A confirmation message appears on the screen. Press ⏱ or ☒ ↻ to select **Yes** and press **OK** to confirm file deletion.
6. Repeat steps 2~5 to delete other files.



In Capture mode, press 🗑 to delete that last recorded file.

To delete multiple files:

1. Press ▶ to switch to **Playback** mode.
2. Press 🗑.
3. Press ⏱ or ☒ ↻ to select **Multi** and press **OK**.

The images are displayed in thumbnail view.

4. Press ❀ or ⚡ to select the files that you want to delete and press ⏲ or ± ↻ to mark the file for deletion. A 🗑 icon appears on the marked files.
5. Press **OK**. A confirmation message appears on the screen. Press ⏲ or ± ↻ to select **Yes** and press **OK** to confirm deletion.

To delete all files:

1. Press ▶ to switch to **Playback** mode.
2. Press 🗑.
3. Press ⏲ or ± ↻ to select **All** and press **OK**.
4. A confirmation message appears on the screen. Press ⏲ or ± ↻ to select **Yes** and press **OK** to confirm deletion.

Slideshow

Sets the time interval for presenting a series of captured image and video files (first frame only).

To play a slideshow:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▶ > **Slide Show**.
3. Press **OK** or ⚡ to enter the submenu.
4. Change the slideshow settings.
   - Press ⏲ or ± ↻ to select **Interval**, and press ❀ or ⚡ to set the transition interval between 1/3/5/10 seconds.
   - Press ⏲ or ± ↻ to select **Repeat**, and press ❀ or ⚡ to select whether you want to repeat the slideshow.
5. Press ⏲ or ± ↻ to select **Start** and press **OK** to play the slideshow.

If you want to pause it at any time, press ± ↻. Press ± ↻ again to resume playback. To stop the slideshow, press ⏲.

Protecting files

Prevents selected files from accidental removal.

To protect a single file:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ⚡ to select the file that you want to protect.
3. Press **MENU** > ▶ > **Protect**.
4. Press **OK** or ⚡ to enter the submenu.
5. Press ⏲ or ◪ ↻ to select **Single** and press **OK**.
6. A confirmation message appears on the screen. Press ⏲ or ◪ ↻ to select **Lock** and press **OK** to confirm file protection.

- A 🔒 icon appears on the protected file.
- To unlock a protected file, select Unlock.

7. Repeat Steps 2~6 to protect other files.

To protect multiple files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▶ > **Protect**.
3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏲ or ◪ ↻ to select **Multi** and press **OK**.
   The images are displayed in thumbnail view.
5. Press 🌷 or ⚡ to select the files that you want to protect and press ⏲ or ◪ ↻ to mark the file for protection. A 🔒 icon appears on the marked files.

If the 🔒 icon does not appear on the thumbnail images, this indicates the files are not protected.

6. Press **OK** to lock the selected files.

To protect all files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▶ > **Protect**.

3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏲ or ◪ ↻ to select **Lock All** and press **OK**.
5. A confirmation message appears on the screen. Press ⏲ or ◪ ↻ to select **Yes** to confirm files protection.

✎ You can remove the protection anytime by following the same procedure as shown above. Note that in Step 4 select Unlock All to unlock all files.

Voice memo

Inserts a voice annotation to an image file.

To record a voice memo:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ⚡ to select the image you want to add a voice memo.
3. Press **MENU** > ▶ > **Voice Memo**.
4. Press **OK** or ⚡ to enter the submenu.
5. Press ⏲ or ◪ ↻ to select **Start** and press **OK** to start voice recording. During audio recording, select **Stop** and press **OK** to stop recording.

✎
- The maximum audio recording time is 30 seconds.
- An 🎙 icon appears on the file that is attached with voice memo.

To play back a voice memo:

1. Press **OK** to play the voice memo.
2. Press ◪ ↻ to pause the playback. Press ◪ ↻ again to resume the playback.
3. Press ⏲ to stop the playback.

Filter Effects

Applies a special effect to a still image (aspect ratio 4:3 only).

Item	Description
Soft	Applies a soft appearance. ✎ This effect is available for a still image at 3M / VGA only.
Selective Color	Retains the color tone you choose while the rest of the scene becomes black and white.
Astral	Applies lines and patterns resembling starburst.
Toy	The parts of image will be blurred and make the scene looks like a toy miniature model. It is recommended to apply the image that captured from a high angle to simulate this Toy effect.
Painting	Image is applied with watercolor effect.

To apply a filter to a 4:3 still image:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ϟ to select the file that you want to apply a filter.
3. Press **MENU** > ▶ > **Filter Effects**.
4. Press **OK** or ϟ to enter the submenu.
5. Press ⏱ or ± ↻ to select a filter and press **OK**.
6. A confirmation message appears on the screen. Press ⏱ or ± ↻ to select **Save** and press **OK** to confirm file protection

Resizing

Changes an image file to a smaller size, and overwrites the image file or saves it as another new file.

To resize an image:

1. Press ▶ to switch to **Playback** mode.
2. Press 🌷 or ϟ to select the image you want to resize.
3. Press **MENU** > ▶ > **Resize**.
4. Press **OK** or ϟ to enter the submenu.

5. Press ⏲ or ☒ ↻ to select the target image size to which you want to reduce and press **OK**.
6. A confirmation message appears on the screen. Press ⏲ or ☒ ↻ to select **Yes** to confirm the change and save the image file.

- This function is only applicable to photos with 4:3 aspect ratio.
- The resize image is saved as a new file.

DPOF

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

To set up DPOF:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▶ > **DPOF**.
3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏲ or ☒ ↻ to select **Select Images** and press **OK** to set the DPOF setting on the selected image.
   The images are displayed in thumbnail view.
5. Press 🌷 or ⚡ to select the files that you want to mark for printing and press ⏲ or ☒ ↻ to specify the number of copies.

To view the selected file in full screen display, slide the Zoom lever to W ▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.

6. Press **OK** to define the DPOF setting.
   - Press ⏲ or ☒ ↻ to select **Date**, and press 🌷 or ⚡ to select whether you want to print the recording date/time.
   - Press ⏲ or ☒ ↻ to select **Info**, and press 🌷 or ⚡ to select whether you want to print the recording data (aperture value and shutter speed).

7. After all settings are complete, press ⏱ or ± ↻ to select **Done** and press **OK**.

To reset DPOF:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▣ > **DPOF**.
3. Press **OK** or ⚡ to enter the submenu.
4. Press ⏱ or ± ↻ to select **Reset** and press **OK** to clear all DPOF settings.

Copy

Copies files between internal memory and memory card.

This feature is only available if an unlocked memory card is inserted into the camera.

To copy the selected files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▣ > **Copy**.
3. Press **OK** or ⚡ to enter the submenu.
4. Choose the copy method, and press **OK** or ⚡ to continue.
   - **Copy to Card**: copy all files stored in camera into the memory card.
   - **Copy to Camera**: copy all files stored in the memory card into the camera's internal memory.
5. Press ⏱ or ± ↻ > **Selected Images** > **OK**.
6. Press ✿ or ⚡ to move to the file you want to copy, and then press ⏱ or ± ↻ to mark or unmark the file for copying. Once marking is done, press **OK**.
7. Press ⏱ or ± ↻ to select **Yes**, and press **OK**.

To view the selected file in full screen display, slide the Zoom lever to W ▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.

8. A confirmation message appears on the screen. Press ⏱ or ± ↻ to select **Yes** and press **OK** to start copying the file.

To copy all files:

1. Press ▶ to switch to **Playback** mode.
2. Press **MENU** > ▶ > **Copy**.
3. Press **OK** or ⚡ to enter the submenu.
4. Choose the copy method, and press **OK** or ⚡ to continue.
5. Press ⏱ or ± ↻ to **All Images** and press **OK**.
6. A confirmation message appears on the screen. Press ⏱ or ± ↻ to select **Yes** and press **OK** to start copying all files.

Movie Paste

Combines two videos that have the same specifications (movie size and frame rate) into one video.

To combine two video:

1. Press ▶ to switch to **Playback** mode.
2. Press ✿ or ⚡ to select the original (first) video.
3. Press **MENU** > ▶ > **Movie Paste**.
4. Press **OK** or ⚡ to enter the submenu.
   The videos with the same specifications as the original video are displayed in thumbnail view.
5. Press ✿ or ⚡ to select the second video and press ⏱ or ± ↻ to mark it.

To view the selected file in full screen display, slide the Zoom lever to W ▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.

6. Press **OK** and a confirmation message appears on the screen.
7. Press ⏱ or ± ↻ to select **Yes** and press **OK** to merge the second video onto the end of the original (first) video.

- The total length of the combined videos cannot be longer than 30 minutes.
- After combining the videos, the second video will be deleted.

Making connection

Bundled software

The camera offers the following programs on a CD.

MAGIX Video easy SE	MAGIX Video easy SE is an intuitive video editing program. Simply select your video, add text, music and transition effects to create your own movie. Burn your movie into DVD, export to mobile devices, or present your videos on the Internet.

To install these programs, see the information supplied with the CD.

Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files.

To connect the camera to a computer:

1. Open the USB/AV port cover.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Turn on the camera.
4. Connect the other end of the USB cable to an available USB port on your computer.
5. Press ⏱ or ± ↻ to select **Computer** and press **OK**.
6. Wait for the connection. A “PC Mode” message appears on the screen when the connection is established.
7. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.

When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

Connecting the camera to a TV

You can play files in your camera on a TV using an AV cable (optional).

- Before connecting the camera to a TV, set the TV Out to match TV's video output format.
- For details on changing the input source of the TV, refer to the TV's user manual.

To connect the camera to a TV using AV cable:

1. Open the USB/AV port cover.
2. Connect the TV and camera.
   - Connect the end of the smaller plug of an AV cable to the camera.
   - Connect the yellow video plug and the white audio plug of the AV cable to a video-input jack and an audio-input jack (left channel) on your TV.
3. Turn on the TV, and then switch the input source of the TV to "AV".
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV.

Printing images

In addition to printing images by connecting the camera to a printer via a computer or bringing the memory card (if available) to a photo-processing center, you can choose to print using PictBridge.

Printing with PictBridge

You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

To print images from a PictBridge-compatible printer:

1. Open the USB/AV port cover.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Connect the other end of the USB cable to an available USB port on your printer.
4. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.
5. Turn on the camera.
6. Press ⏲ or ± ↻ to select **Printer** and press **OK**.
7. Wait for the connection.
8. On Print Mode menu, select one of the following options:
   - **Print Select**: select to configure the printing settings on the selected image.

- **Print All**: Select to print all images at a time.
- **Print DPOF**: Select to print only the images with DPOF tag.

To set the printing settings on the selected files:

1. On Print Mode menu, press ⏲ or ◪↻ to select **Print Select** and press **OK** to select the files that you want to print. The images are displayed in thumbnail view.
2. Press 🌷 or ⚡ to select the files that you want to mark for printing and press ⏲ or ◪↻ to specify the number of copies.

- To view the selected image in full screen display, slide the Zoom lever to W▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.
- The maximum number of copies is 99.

3. Press **OK** to enter the printer settings.
    - Press ⏲ or ◪↻ to select **Paper Size**, and press 🌷 or ⚡ to select the desired paper size.
    - Press ⏲ or ◪↻ to select **Quality**, and press 🌷 or ⚡ to select the desired print quality.
    - Press ⏲ or ◪↻ to select **Capture Date**, and press 🌷 or ⚡ to select whether you want to print the recording date/time.
    - Press ⏲ or ◪↻ to select **Capture Info**, and press 🌷 or ⚡ to select whether you want to print the recording data (aperture value and shutter speed).
4. After all settings are complete, press ⏲ or ◪↻ to select **Print** and press **OK** to start printing.

To set the printing settings on all files:

1. On Print Mode menu, press ⏲ or ◪↻ to select **Print All** and press **OK** to select the files that you want to print.
   The images are displayed in thumbnail view. All images are marked for printing and the number of printing copies is automatically set to 1.
2. Press 🌷 or ⚡ to view the files and press ⏲ or ◪↻ to adjust the number of copies.

- To view the selected image in full screen display, slide the Zoom lever to W▦. To switch back to thumbnail display, slide the Zoom lever to 🔍T.
- The maximum number of copies is 99.

3. Press **OK** to enter the printer settings and set the necessary settings.
4. After all settings are complete, press ⏲ or ± ↻ to select **Print** and press **OK** to start printing.

To print all files with DPOF tag:

1. On Print Mode menu, press ⏲ or ± ↻ to select **Print DPOF**.
2. Press **OK** to enter the printer settings and set the necessary settings.
3. After all settings are complete, press ⏲ or ± ↻ to select **Print** and press **OK** to start printing.

- The above procedure may vary depending on the printer type you are using.
- If you connect the camera to your printer while the printer is still starting up, the camera will be automatically turned off.
- Failure to follow the above procedure will make the camera show an error message. Please disconnect the camera and the camera will be automatically turned off.

Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

Problem	Cause	Solution
The camera cannot power up.	There is no battery or the batteries are not inserted correctly.	Insert the batteries correctly.
	The batteries have no power.	Replace the batteries.
	Battery type might be wrong.	Use correct battery type.
The battery power is draining quickly.	Battery type setting on the camera might be wrong.	Select the correct battery type setting on the camera.
	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
The batteries or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The LCD screen is black.	The lens cover is on.	Remove the lens cover.
No image is displayed on the screen and the camera beeped four times.	The lens cover is on.	Remove the lens cover.
I cannot adjust the flash mode.	The flash is closed.	Open the flash.

Problem	Cause	Solution
The flash does not fire.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	--
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.
I cannot download images from the camera to my computer.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Replace the batteries.

Problem	Cause	Solution
The camera does not shoot even when pressing the shutter.	The batteries are running low.	Replace the batteries.
	The camera is not in Capture mode.	Switch to Capture mode.
	The shutter was not pressed all the way down.	Press the shutter all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Connect the camera to the printer, turn on the camera, and then select **Printer**.

Technical support

For technical assistance, free driver updates, product information, and news releases, visit the following web site:

http://www.BenQ.com

Specifications

Sensor	Panasonic 16 Mega Pixels, 1/2.3 inch CCD
Zoom	Optical: 26X Digital: Up to 5X (Preview) / Up to 10X (Playback)
Lens	f = 4 (W) ~ 104 (T) mm F= 3.1 (W) ~ 5.9 (T) (f = 22.3 mm ~ 580 mm, 35 mm equivalent)
Focus Range	Normal: W = 0.8 m ~ Infinity; T = 3.5 cm ~ Infinity Macro: W = 0.1 m ~ 1m; T = 2 m ~ Infinity Super Macro: 0.01 m (at zoom 9X)
LCD	3.0” LCD 460k pixels
Image Resolution	Aspect Ratio 4:3 - 16M, 8M, 5M, 3M, VGA Aspect Ratio 16:9 - 9M, 2M Aspect Ratio 3:2 - 10M Aspect Ratio 1:1 - 9M
Movie Mode	HD 720p 30fps / VGA 30fps
Shutter Speed	Auto: 1/2000 ~ 1 sec. Manual mode: 1/2000 ~ 15 sec. (Night scene: 1/2 ~ 1/2000 sec.; Fireworks 2 sec.)
White Balance	Auto / Daylight / Cloudy / Tungsten / Fluorescent_1 / Fluorescent_2 / Manual
Exposure	-2.0 ~ +2.0 EV (0.3EV / step)
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 (3M or lower) / 6400 (3M or lower)
Flash	Auto Flash / Red-eye Reduction / Forced On / Slow Sync / Forced Off
Drive mode	Off / 10 sec. / 2 sec. / Double
Power Source	CIPA approximately 350 (based on bundled AA Alkaline batteries)
Storage Type	Built-in approx. 98.7MB (+-5%) SD (up to 4GB) / SDHC (up to 32GB) / SDXC (> 32GB)
File Format	Still Image: JPEG (EXIF 2.3 compatible); DCF compatible; Support DPOF Video: AVI (Video: MJPEG; Audio: mono) Audio: WAV

Dimensions / Weight	120.2 x 79 x 87.1 mm 410 g (w/o batteries & SD card)
Interface	Digital output: USB 2.0 compatible Audio / Video output (NTSC/PAL/HDMI) PictBridge compatible
Accessories	• **Standard:** - USB cable - Software & user manual CD - Quick Guide - Neck strap - Non-rechargeable AA batteries x 4 • **Optional:** - Lens cover - Lens strap - Pouch Available accessories depend on the actual items shipped and may vary from the list above.

All information, designs, and specifications are subject to change without prior notice.